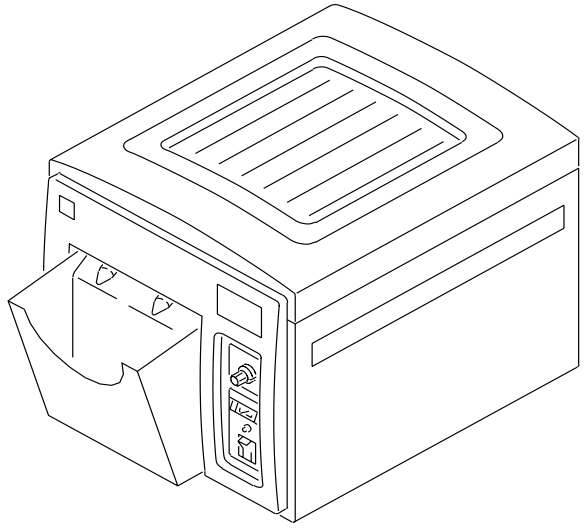
Publication No. 3E0817
29SEP99

HEALTH IMAGING

INSTALLATION INSTRUCTIONS
for the
Kodak Min-R MAMMOGRAPHY PROCESSOR
Service Code: 3752

Important
Use qualified personnel to install this equipment.



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Warning

To avoid hazardous conditions, keep floors and floor coverings around your PROCESSOR and associated drains clean and dry at all times. Any accumulation of fluids from mixing tanks, drain lines, etc., should be cleaned up immediately. In the event of an accumulation of liquid due to backup, overflow, or other malfunctions of the drain associated with your PROCESSOR, call a plumber or other contractor to correct any problem with the drain. Kodak accepts no responsibility or liability whatsoever for the serviceability of any drain connected to or associated with a PROCESSOR. Such drains are the sole responsibility of the customer.

Radio Interference

Caution

This equipment generates, uses, and can radiate radio-frequency energy. If the equipment is not installed and used according to the instructions, it might cause interference to radio communications. The equipment has been tested and found to comply with the limits for a *Class A* computing device pursuant to Subpart J of Part 15 of the FCC Rules, which are designed to provide reasonable protection against such interference when the equipment is operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user, at the user's own expense, will be required to take whatever measures might be required to correct the interference.

This digital apparatus does not exceed the *Class A* limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

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Section 1: General Information

Electrostatic Discharge

Electrostatic discharge (ESD) is a primary source of:

- product downtime
- low productivity
- repairs

While you cannot feel a static charge of less than 3,500 volts, as few as 30 volts can damage or destroy essential components in electronic equipment.

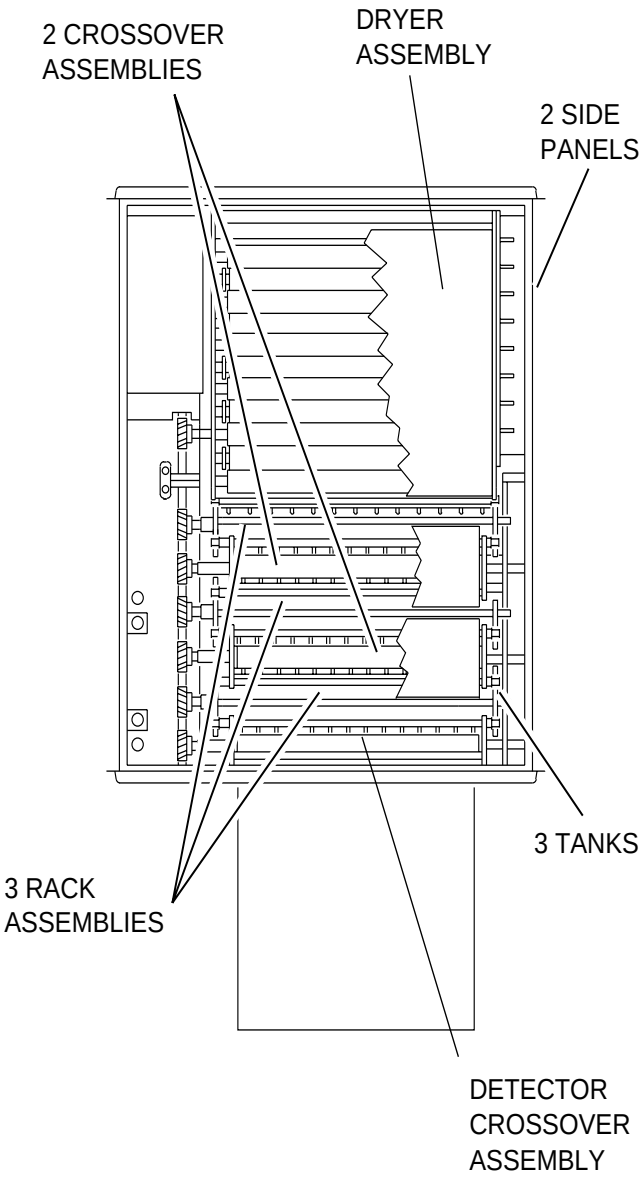
Preventive Measures

- Always look for an ESD warning label before doing any procedure involving static-sensitive components such as BOARDS. All static-sensitive components are marked with bright graphic labels which frequently include instructions. Follow all label instructions.
- Wear a GROUNDING STRAP when handling static-sensitive components. Always be sure that the CLIP remains fastened to a correctly grounded, not painted or contaminated surface.
- Repair static-sensitive components at an ESD-protected work station or use a portable GROUNDING MAT. For help in setting up an ESD-protected work station, contact your Kodak representative.
- When moving static-sensitive components from one area to another, insert and transport the components in ESD-protective packaging.

Special Tools

- AIR METER TL-2431
- LEVEL TL-1434
- POTENTIOMETER ADJUSTING TOOL TL-1481

Section 2: Unpacking the PROCESSOR



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[1] Remove the contents from the packing carton.

[2] Use the packing list to check that all parts are included.

[3] Remove:

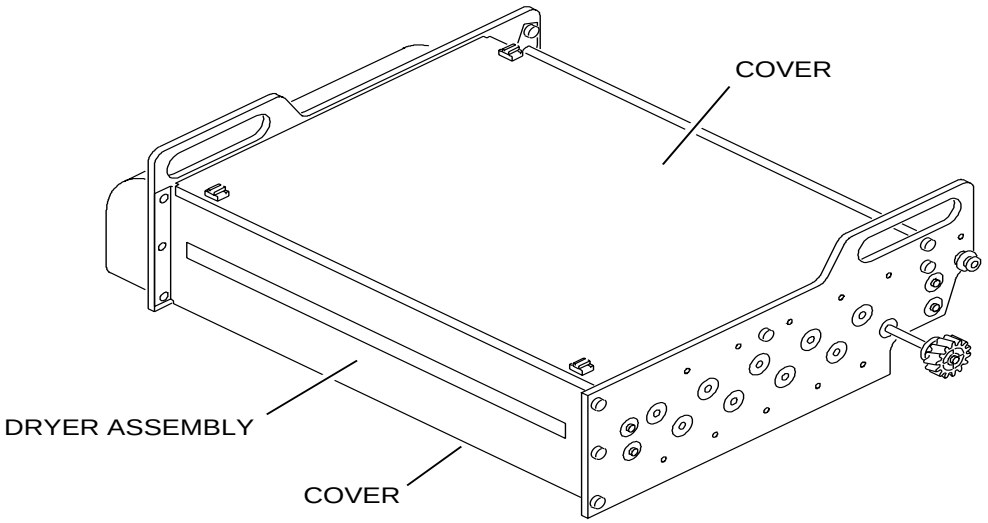
- TOP COVER
- 2 SIDE PANELS
- packing material
- DETECTOR CROSSOVER ASSEMBLY
- 2 CROSSOVER ASSEMBLIES
- DRYER ASSEMBLY
- 3 RACK ASSEMBLIES

[4] Carefully remove the packing material from the 3 TANKS and the 3 RACK ASSEMBLIES.

[5] Rinse with water any packing dust from:

- TANKS
- RACK ASSEMBLES
- CROSSOVER ASSEMBLIES
- DRYER ASSEMBLY

[6] Use a soft cloth to remove any water from the TANKS and ASSEMBLIES.



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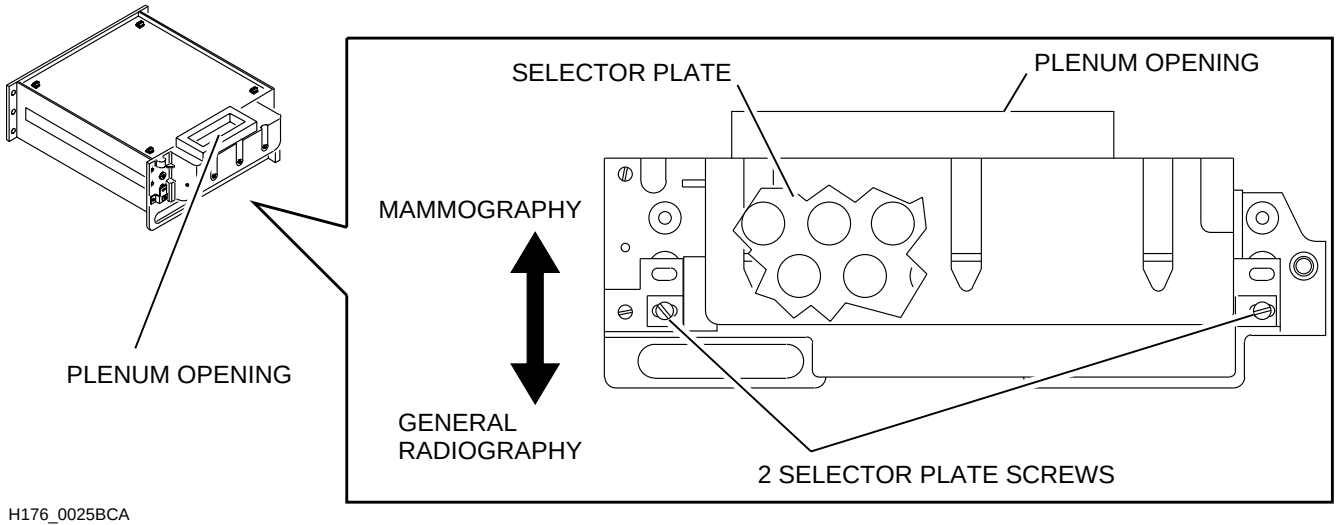
[7] Remove from the DRYER ASSEMBLY:

- top and bottom COVERS
- packing material

[8] Install the top and bottom COVERS.



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[9] Place the DRYER ASSEMBLY with the PLENUM OPENING in the up position.

Important

For MAMMOGRAPHY film, the SELECTOR PLATE SCREWS must be in the up position.
For GENERAL RADIOGRAPHY film, the SELECTOR PLATE SCREWS must be in the down position.

[10] Check the position of the SELECTOR PLATE SCREWS.

[11] If the position of the SELECTOR PLATE must be changed, do Step 12. If the SELECTOR PLATE SCREWS are in the correct position, skip Step 12 and continue with this installation instruction.

[12] To change the position of the SELECTOR PLATE for the correct film use:

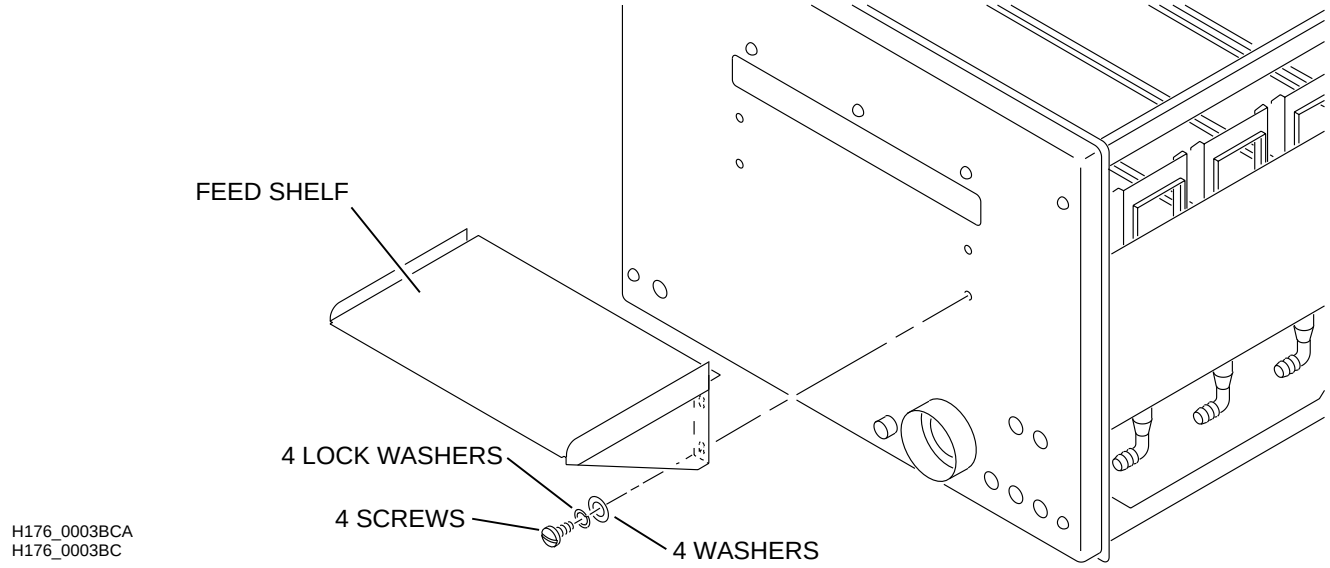
(a) Remove the 2 SELECTOR PLATE SCREWS.

(b) Move the SELECTOR PLATE up for MAMMOGRAPHY film or down for GENERAL RADIOGRAPHY film.

(c) Install the SELECTOR PLATE SCREWS.

Section 3: Assembling the PROCESSOR

Installing the FEED SHELF and RECEIVING BIN

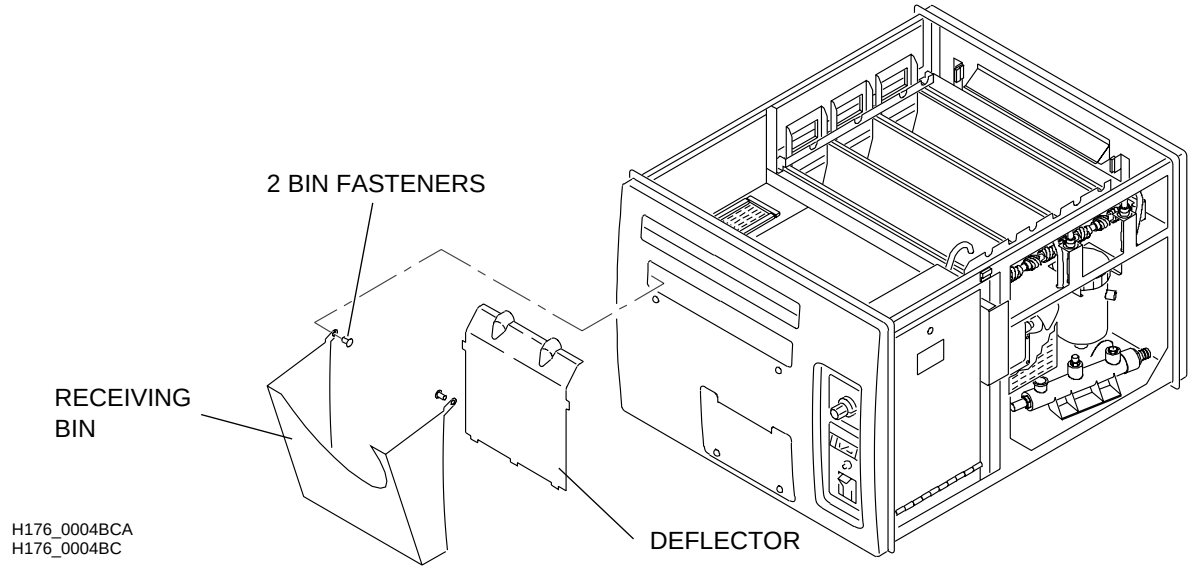


Caution

Do not excessively tighten the SCREWS.

[1] Install:

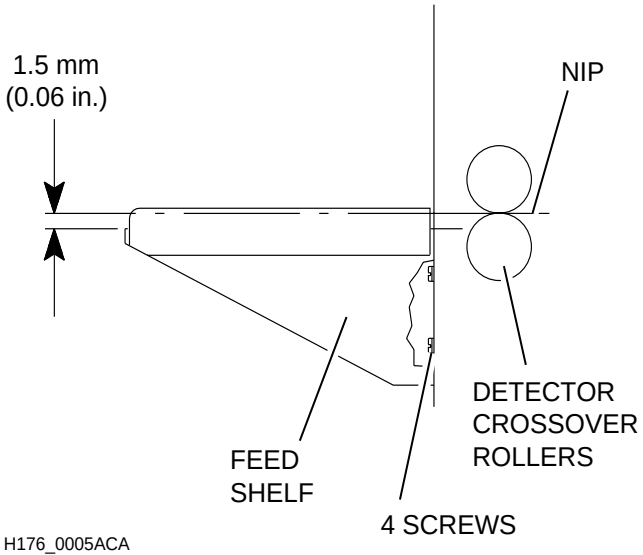
- FEED SHELF
- 4 WASHERS, No. 10
- 4 LOCK WASHERS, No. 10
- 4 SCREWS, No. 10 - 32 x ½



[2] Install:

- DEFLECTOR in the RECEIVING BIN
- RECEIVING BIN
- 2 BIN FASTENERS

Adjusting the FEED SHELF



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[1] Loosen the 4 SCREWS.

[2] Adjust the height of the FEED SHELF to 1.5 mm (1⁄16 in.) below the NIP of the DETECTOR CROSSOVER ROLLERS.

[3] Tighten the 4 SCREWS.

Setting the Frequency and Cycle Type

Important

The PROCESSOR can be set to operate at different frequencies and cycle speeds:

- Standard Cycle has a transport speed of 76.2 ± 1.5 cm per minute (30.4 ± 0.6 in.)
- Rapid Cycle has a transport speed of 101.6 ± 2.0 cm per minute (40.0 ± 0.8 in.)

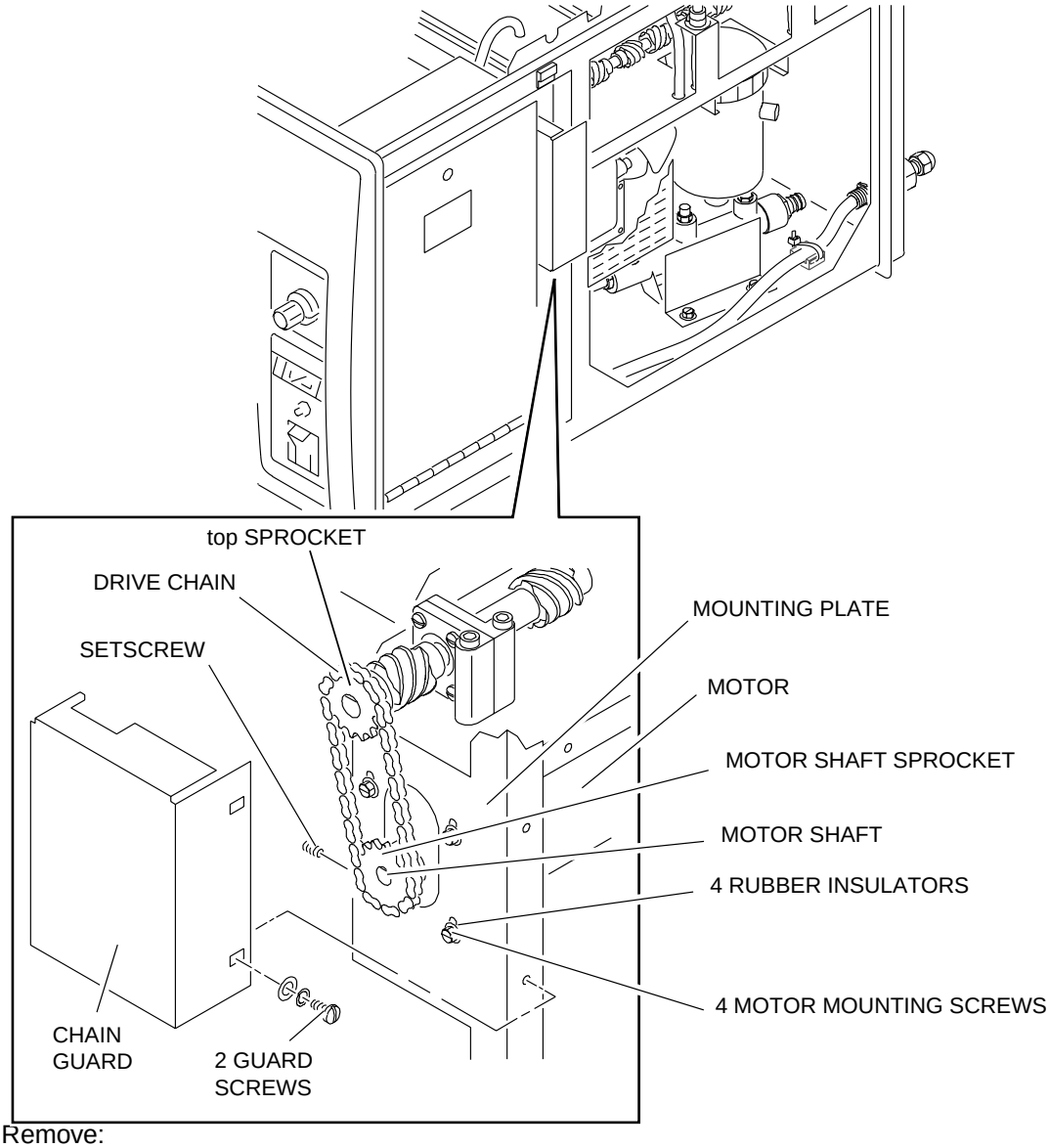
[1] Check the frequency and cycle speed of the PROCESSOR.

[2] If the PROCESSOR is set for 60 Hz frequency, Standard Cycle, and this setting is correct for the installation site, advance to “Placing the PROCESSOR at the Site”. See Page 10.

[3] To select another frequency or cycle speed:

- check the table below
- do Step 4 -Step 13

Cycle	Frequency	MOTOR SHAFT SPROCKET	DRIVE CHAIN
Standard	60 Hz	16-TOOTH	short
Standard	50 Hz	19-TOOTH	short
Rapid	60 Hz	22-TOOTH	long
Rapid	50 Hz	26-TOOTH	long



[4] Remove:

- 2 GUARD SCREWS from the MOUNTING PLATE
- CHAIN GUARD

[5] Loosen the 4 MOTOR MOUNTING SCREWS.

[6] Move the MOTOR up. Remove the DRIVE CHAIN.

[7] Loosen the SETSCREW. Remove the MOTOR SHAFT SPROCKET.

[8] With the SETSCREW, install the correct SPROCKET on the MOTOR SHAFT. See the table on Page 8.

[9] Align the MOTOR SHAFT SPROCKET with the top SPROCKET. Tighten the SETSCREW.

[10] Install the correct DRIVE CHAIN. See the table on Page 8.

[11] Move the MOTOR down to tighten the DRIVE CHAIN.

Caution

If the MOTOR MOUNTING SCREWS are too tight, vibration will occur in the MOTOR.

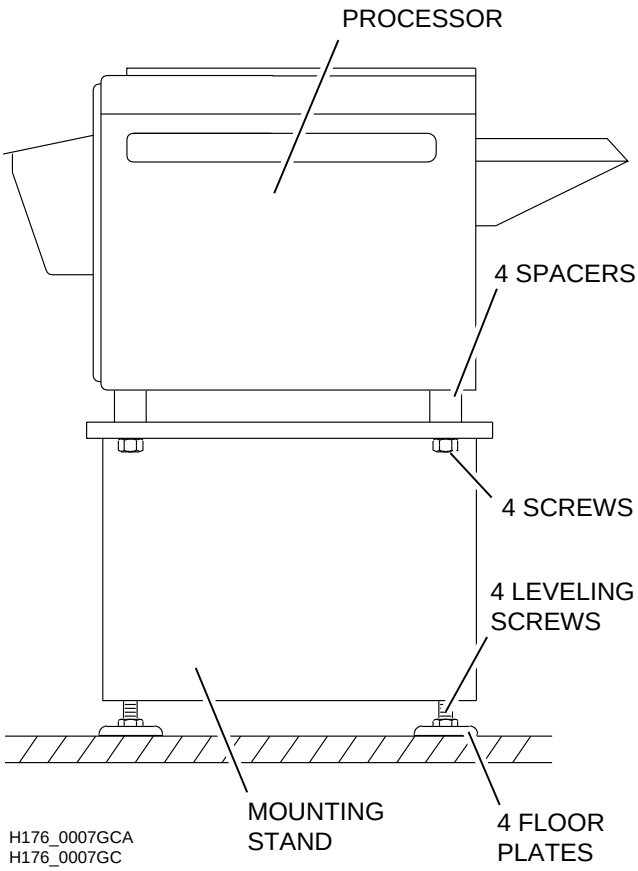
[12] Tighten the MOTOR MOUNTING SCREWS only until the RUBBER ISOLATORS are partially compressed.

[13] Install:

- CHAIN GUARD
- 2 GUARD SCREWS

Section 4: Placing the PROCESSOR at the Site

Installing the PROCESSOR on the MOUNTING STAND



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[1] If the PROCESSOR is installed on a different surface other than on a *Kodak* M35/M43 *X-Omat* MOUNTING STAND, advance to “Leveling the PROCESSOR”. See Page 28.

[2] Remove the 4 SCREWS from the PROCESSOR.

Warning

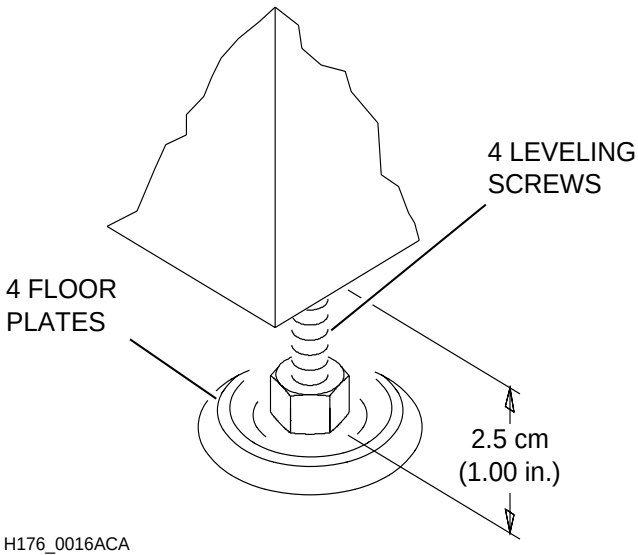
The PROCESSOR weight is 90 kg (200 lb).

[3] Place the PROCESSOR on the MOUNTING STAND.

[4] Install:

- 4 SPACERS between the PROCESSOR and the MOUNTING STAND
- 4 SCREWS through the MOUNTING STAND and the SPACERS

[5] Tighten the 4 SCREWS.



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Important

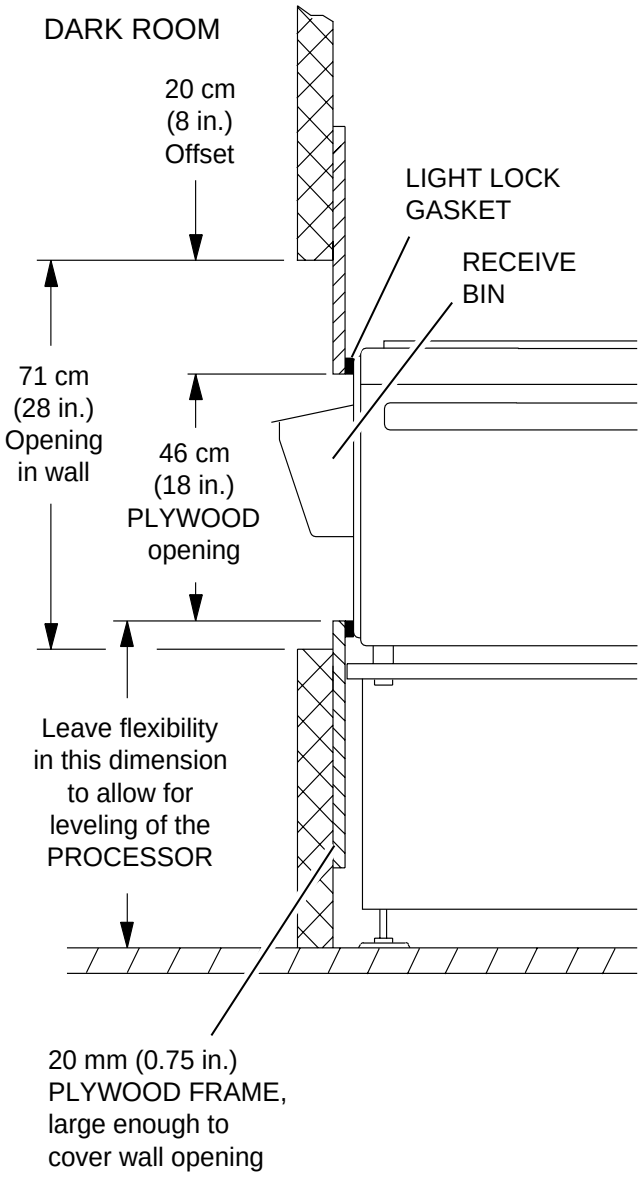
See the graphic for correct installation of the FLOOR PLATES and LEVELING SCREWS.

[6] Install the 4 LEVELING SCREWS on the MOUNTING STAND.

[7] Place the MOUNTING STAND on the 4 FLOOR PLATES.

Installing the PROCESSOR Through a Wall

RECEIVE BIN Through the Wall:



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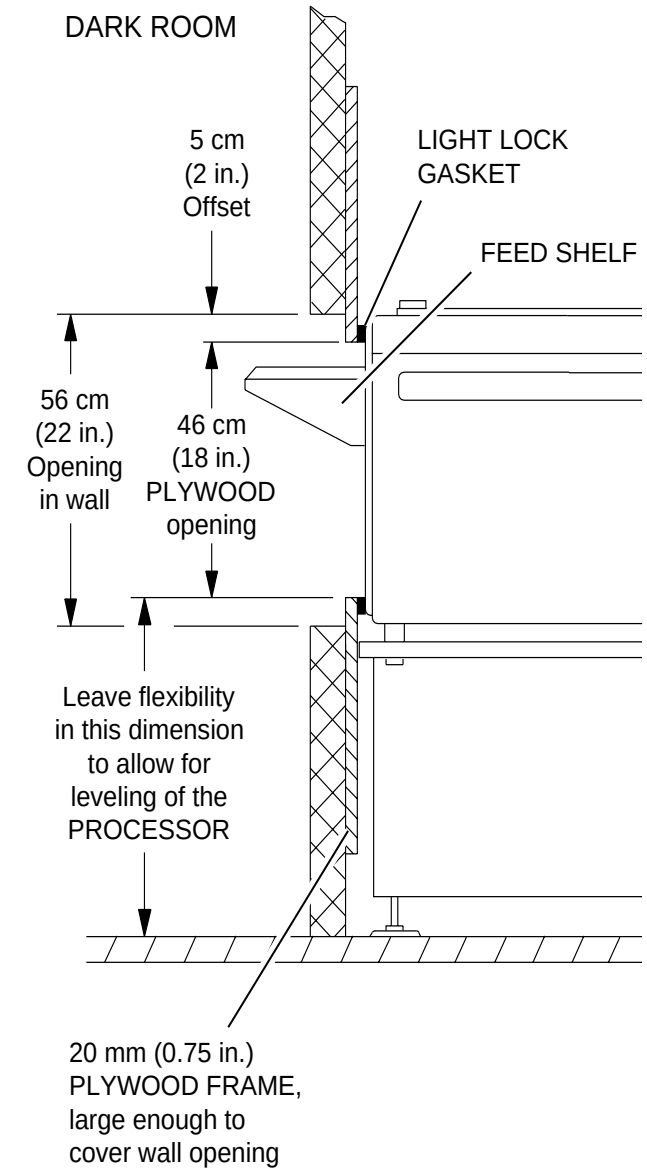
FEED SHELF Through the Wall:



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[1] Select the correct dimensions for the installation of the PROCESSOR with the RECEIVE BIN or the FEED SHELF through the wall.

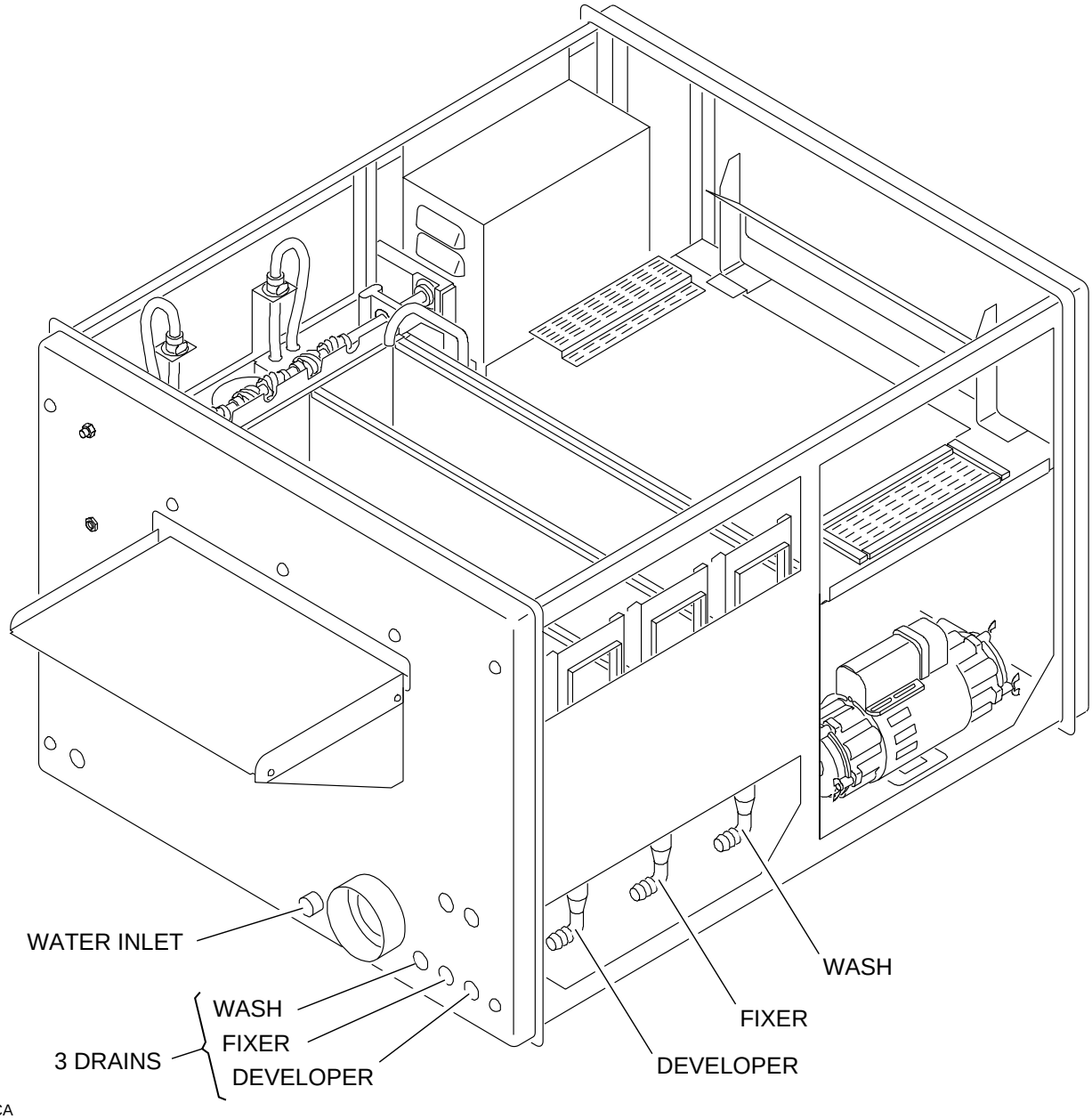
[2] Install the LIGHT LOCK GASKET on the PLYWOOD FRAME.

[3] Move the PROCESSOR flush with the LIGHT LOCK GASKET for a tight seal.

Note

The procedures for leveling, adjusting, and fastening the PROCESSOR to a wall, is in the procedure “Leveling the PROCESSOR” on Page 28.

Section 5: Connecting the Plumbing



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Important

DRAINS must:

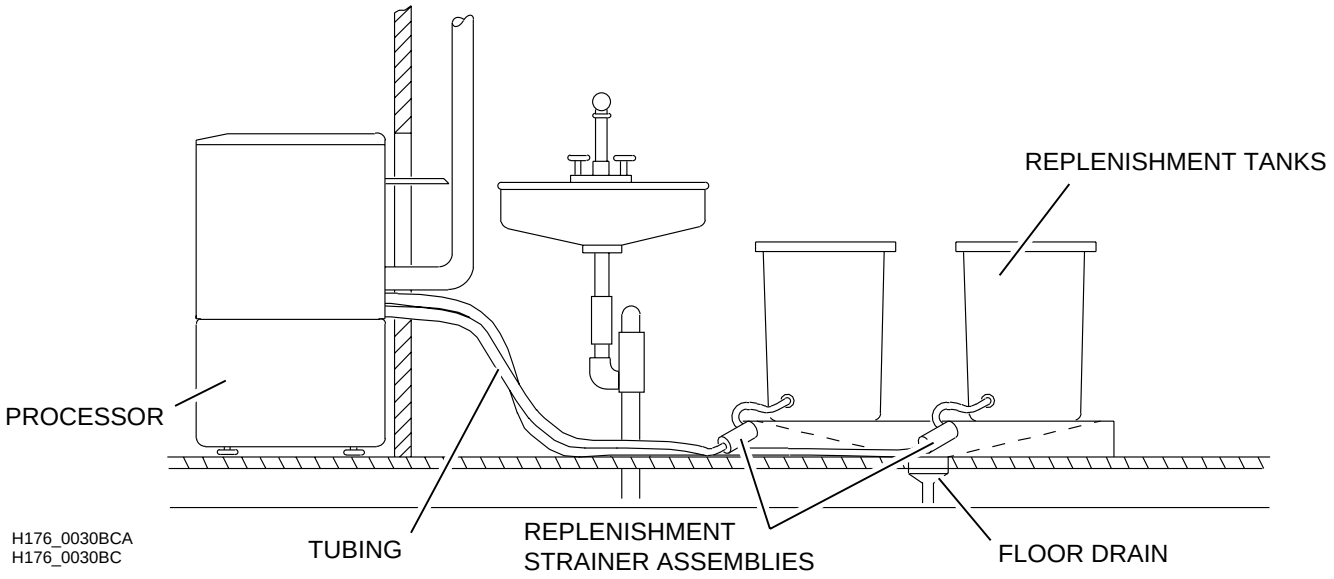
- be made of chemical resistant, noncorrosive material - use PVC or similar
- have a minimum diameter of 7.6 cm (3 in.)
- be free of obstruction
- agree with local codes

[1] Use 1.27 cm (½ in.) ID TUBING to connect the following 3 DRAINS to the DRAIN in the floor:

- WASH
- FIXER - if a SILVER RECOVERY UNIT is installed, see Page 13, Step 4
- DEVELOPER

[2] Connect the site water supply to the WATER INLET of the PROCESSOR.

Section 6: Connecting the REPLENISHMENT TANKS and the SILVER RECOVERY UNIT



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Important

The customer can use either REPLENISHMENT TANKS or a chemical mixing system. An example of a chemical mixing system is a *Kodak* AUTOMIXER III.

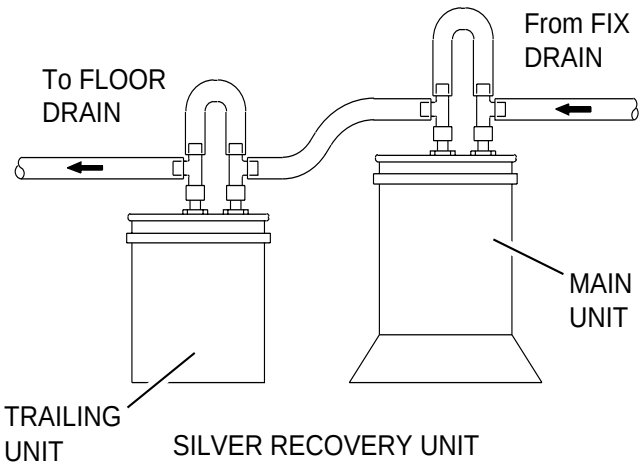
[1] To install a chemical mixing system, use the installation instructions for that system.

[2] If the customer uses REPLENISHMENT TANKS, install the 2 REPLENISHMENT STRAINER ASSEMBLIES between the REPLENISHMENT TANKS and the PROCESSOR. Use the 0.95 cm (⅜ in.) TUBING.

Note

The maximum height of the solutions in the REPLENISHMENT TANKS must be below the solution height in the TANKS of the PROCESSOR.

[3] Check that the connections in the TUBING are tight.



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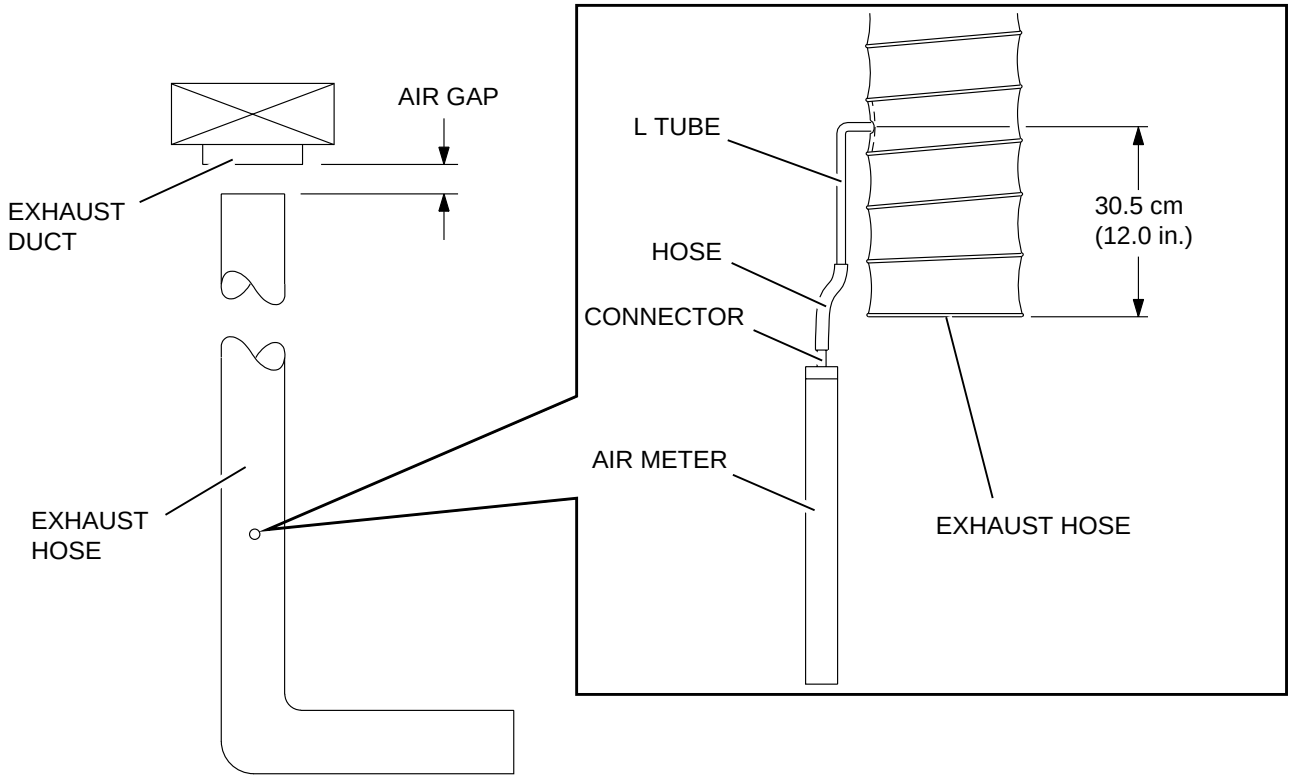
[4] If the customer has a SILVER RECOVERY UNIT, install it. See the installation instructions that is included with the system.

Note

The graphic displays a setup using 2 *Kodak* CHEMICAL RECOVERY CARTRIDGES, MODEL II.

Section 7: Checking the Negative Pressure



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[1] Connect the rubber HOSE from the AIR METER TL-2431 to:

- L TUBE
- center CONNECTOR on the AIR METER

[2] Make a 6.4 mm (¼ in.) hole approximately 30.5 cm (12 in.) from the end of the EXHAUST HOSE that will be connected to the PROCESSOR.

[3] Insert the L TUBE into the 6.4 mm (¼ in.) hole until the end of the L TUBE is flush with the inside of the EXHAUST HOSE.

Important

- Hold the AIR METER vertically.
- Do not connect the EXHAUST HOSE to the PROCESSOR when checking the negative pressure.

[4] Use the AIR METER to check that the negative pressure is correct:

Diameter of the EXHAUST HOSE	Negative Pressure
7.6 cm (3.0 in.)	0.76 - 1.02 mm (0.03 - 0.04 in.) of water
10.2 cm (4.0 in.)	0.25 - 0.51 mm (0.01 - 0.02 in.) of water

[5] If the negative pressure is not correct, adjust the AIR GAP between the EXHAUST DUCT for the site and the EXHAUST HOSE for the PROCESSOR.

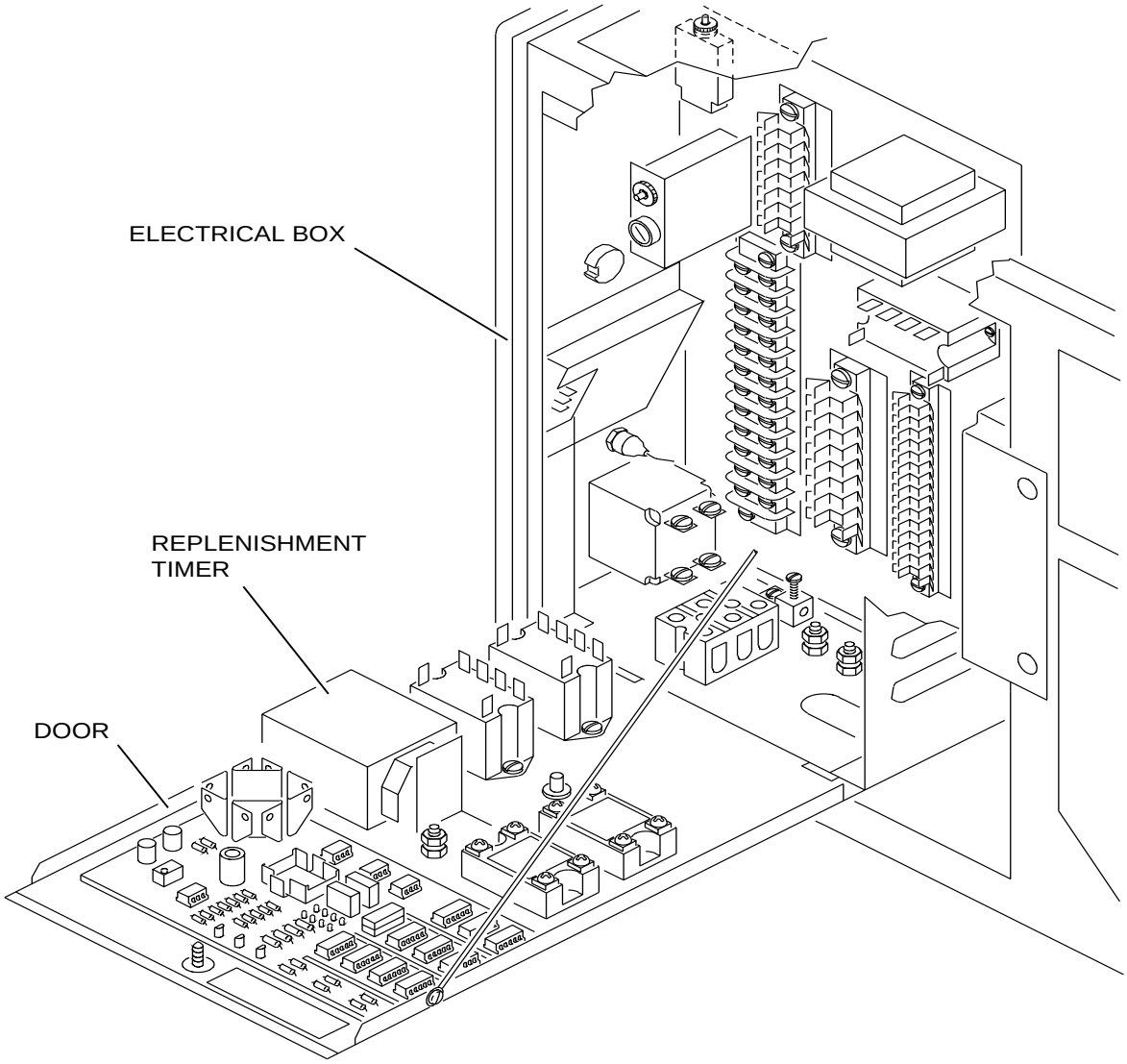
[6] If the negative pressure cannot be obtained, install a *Kodak* AUXILIARY VENTILATION FAN KIT. See the SITE SPECIFICATIONS, Publication No. 3E0816.

[7] Remove the L TUBE from the EXHAUST HOSE and block the hole in the EXHAUST HOSE.

[8] Connect the EXHAUST HOSE to the PROCESSOR.

Section 8: Electrical Setup

Setting the Power Frequency and Voltage



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Warning

Dangerous Voltage

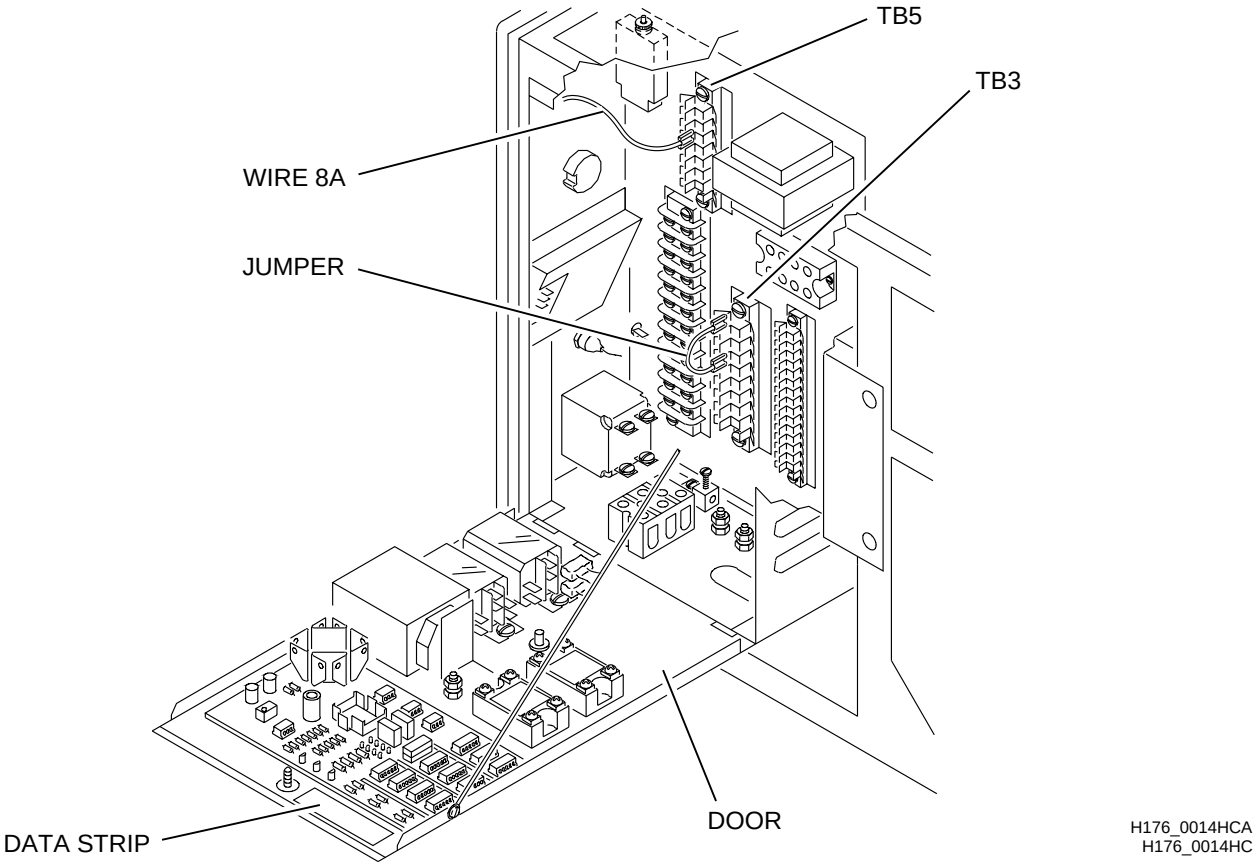
[1] De-energize and disconnect the main power.

[2] Open the DOOR on the ELECTRICAL BOX.

Important

At the time of shipment, all PROCESSORS are in the “Flooded Replenishment” mode because the REPLENISHMENT TIMER is installed. For more information on the “Flooded Replenishment” mode, see the SERVICE BULLETIN 30, Publication No. 632661.

[3] If the PROCESSOR will not be operating in the “Flooded Replenishment” mode, remove and keep the REPLENISHMENT TIMER.



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Caution

The frequency and voltage for the PROCESSOR and the main power at the site must be the same.

[4] Check the frequency and voltage of the PROCESSOR and the main power at the site.

[5] To set the frequency and voltage of the PROCESSOR:

(a) Connect the JUMPER to the correct position on TB3:

Frequency	Position
50 Hz	TB3-7 to TB3-8
60 Hz	TB3-7 to TB3-9

Important

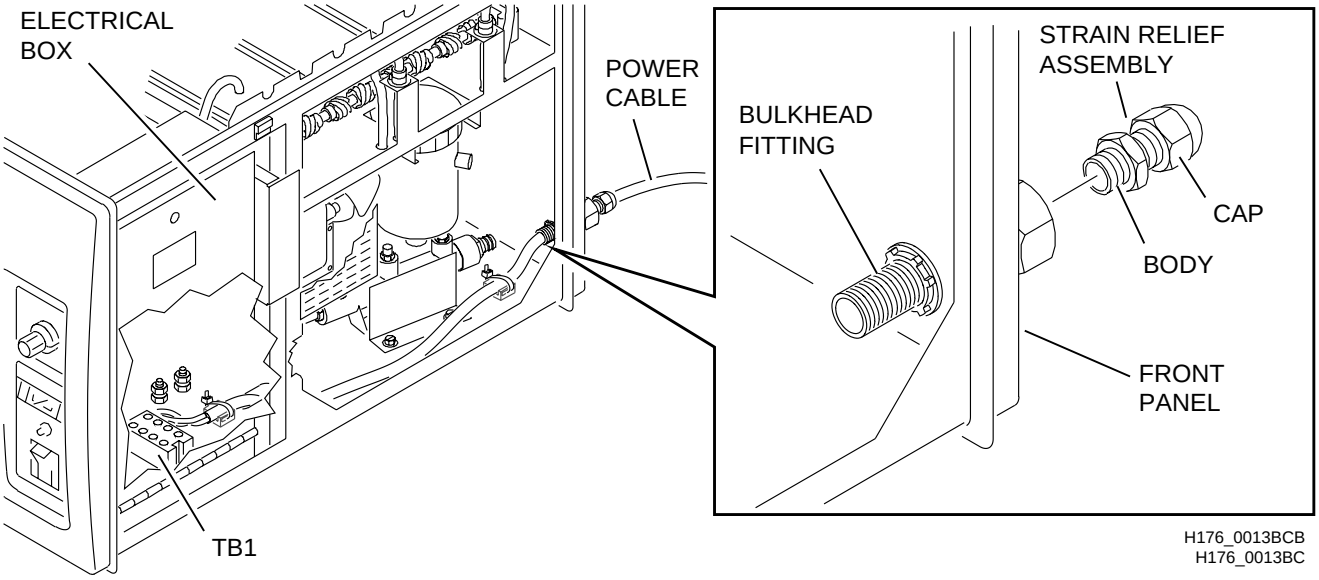
Count from the bottom of TB5 to obtain the correct position.

(b) Connect WIRE 8A to the correct position on TB5:

Site Voltage	Position
200 or 208 V AC	TB5-2
220 or 230 V AC	TB5-3
240 V AC	TB5-4

[6] Apply the correct DATA STRIP inside the DOOR to indicate the frequency and voltage that the PROCESSOR is set for.

Connecting the POWER CABLE



[1] Install the STRAIN RELIEF ASSEMBLY into the BULKHEAD FITTING on the FRONT PANEL.

[2] Tighten the BODY of the STRAIN RELIEF ASSEMBLY.

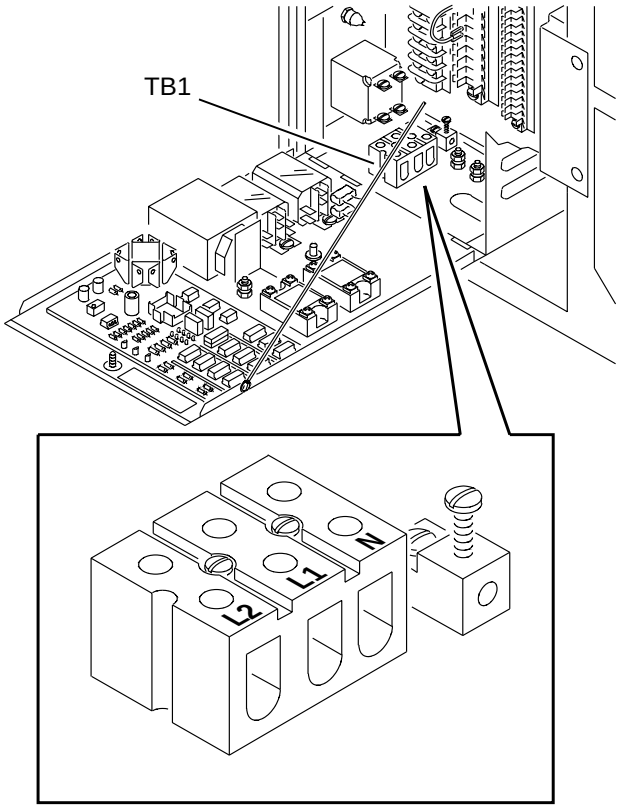
[3] Install the POWER CABLE through the STRAIN RELIEF ASSEMBLY.

[4] Extend the POWER CABLE through the hole in the ELECTRICAL BOX to TB1.

[5] Tighten the CAP of the STRAIN RELIEF ASSEMBLY.

[6] To connect the wires of the POWER CABLE to TB1:

Voltage at the Site:	Advance to:
100/200 V AC, 120/208 V AC, 127/220 V AC or 120/240 V AC	Step 7
220/380 V AC, 230/400 V AC, or 240/415 V AC	Step 9



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[7] Connect:

- L1 of the POWER CABLE to TB1-L1
- L2 of the POWER CABLE to TB1-L2

Note

Neutral is not used by the PROCESSOR in this configuration.

[8] Advance to Step 11.

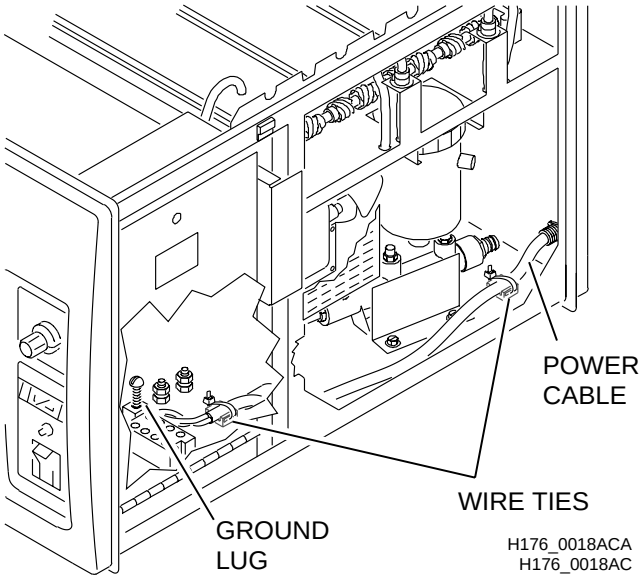
[9] Move the existing wire from TB1-L2 to TB1-N.

[10] Connect:

- L1 of the POWER CABLE to TB1-L1
- neutral wire of the POWER CABLE to TB1-N

Note

L2 is not used by the PROCESSOR in this configuration.



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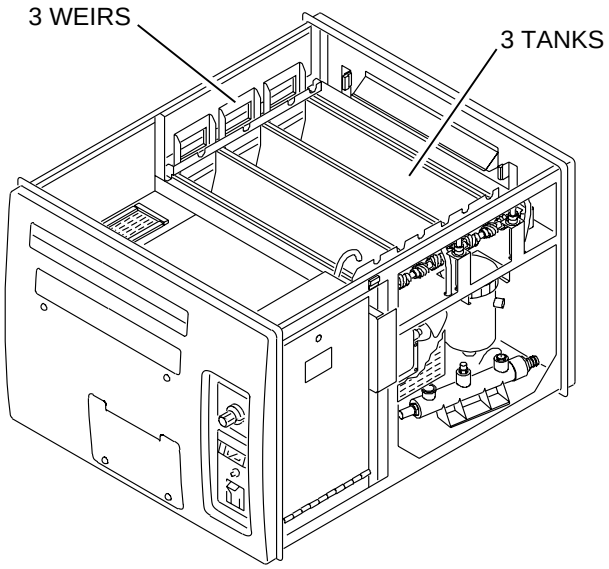
[11] Connect the ground wire to the GROUND LUG.

[12] Install the 2 WIRE TIES to the POWER CABLE.

[13] Close the DOOR on the ELECTRICAL BOX.

Section 9: Setup and Checkout

Checking the CLAMPS and TANKS



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[1] Tighten all CLAMPS.

[2] Check:

- 3 WEIRS are correctly installed and seated
- TUBING is not bent

Note

The WEIRS are identified with colors:

- red for the developer
- blue for the fixer
- beige for the wash

[3] Fill the 3 TANKS with water.

Warning

Dangerous Voltage

[4] Connect the main power. Energize the PROCESSOR.

[5] Allow the PROCESSOR to operate for 5 minutes.

Warning

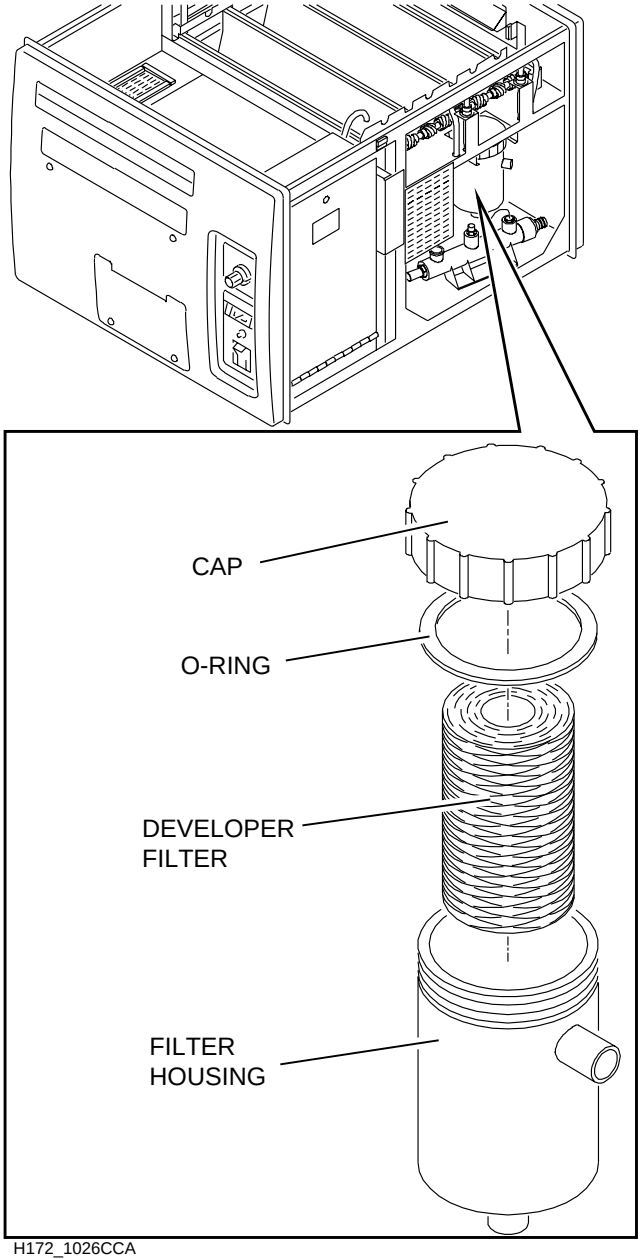
Dangerous Voltage

[6] De-energize the PROCESSOR.

[7] Check for leakage.

[8] Drain the 3 TANKS.

Filling the TANKS



H172_1026CCA
H172_1026CC

[1] Soak the DEVELOPER FILTER in warm water for 30 seconds.

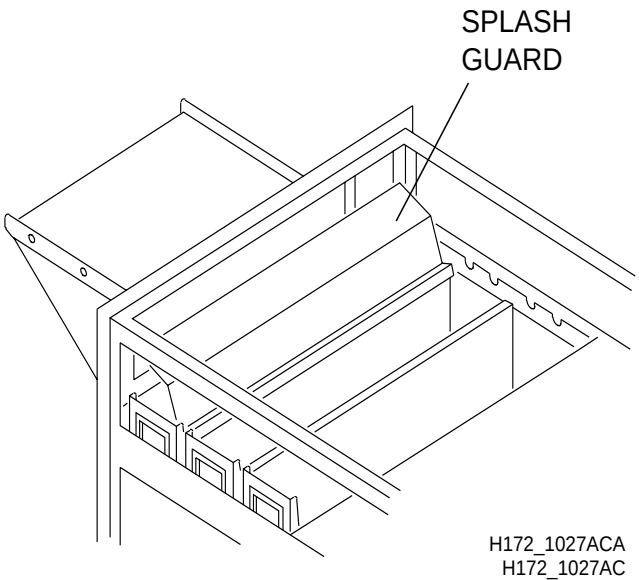
Important

The O-RING must be seated correctly in the CAP.

[2] Assemble:

- FILTER HOUSING
- DEVELOPER FILTER
- O-RING
- CAP

[3] Install the FILTER HOUSING in the PROCESSOR.



H172_1027ACA
H172_1027AC

[4] Install the SPLASH GUARD between the DEVELOPER TANK and the FIXER TANK.

[5] Mix the developer solution first, then the fixer.

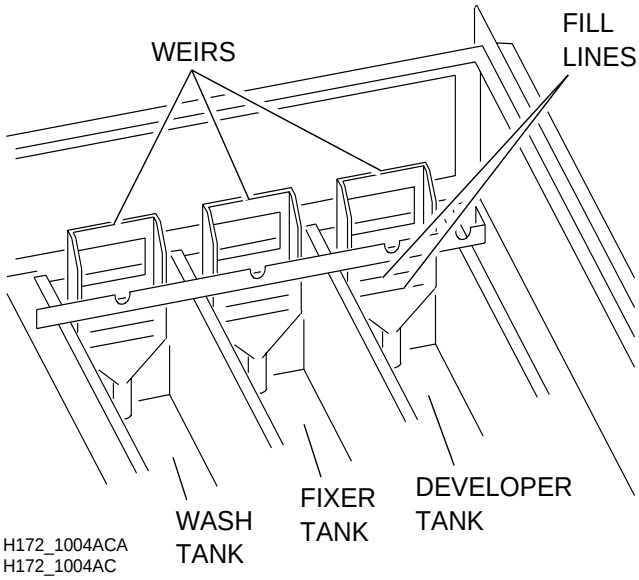
Caution

Prevent damage to equipment.

[6] Rinse the mixing and filling equipment to prevent contamination of the solutions.

[7] Mix the chemicals using the instructions included in the packages:

- *Kodak* RP *X-Omat* DEVELOPER AND REPLENISHER
- *Kodak* RP *X-Omat* FIXER AND REPLENISHER
- *Kodak* RP *X-Omat* EX DEVELOPER AND REPLENISHER



H172_1004ACA
H172_1004AC

Important

The maximum height of the solutions in the PROCESSOR is 97 cm (38 in.) when the PROCESSOR is installed on the *Kodak* M35/M43 *X-Omat* MOUNTING STAND.

[8] Add fixer replenisher solution to the FIXER TANK until the solution is at the higher FILL LINE on the blue WEIR.

[9] Remove the SPLASH GUARD. Rinse with water.

[10] Install the SPLASH GUARD over the FIXER TANK.

[11] Fill the DEVELOPER TANK 1/2 full of developer replenisher solution.

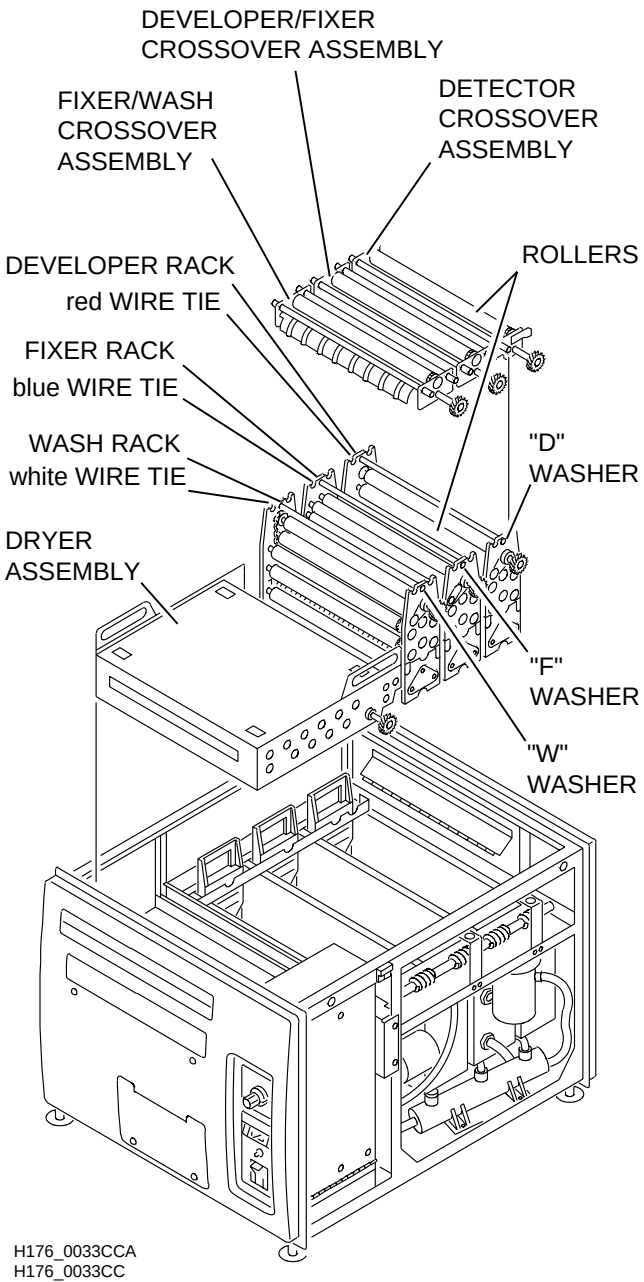
[12] Add the *Kodak* RP *X-Omat* DEVELOPER STARTER:

- for MAMMOGRAPHY, 380 mL (13 fl oz)
- for GENERAL RADIOGRAPHY, 190 mL (6.5 fl oz)

[13] Fill the DEVELOPER TANK to the lower FILL LINE on the red WEIR with developer replenisher solution.

[14] Remove the SPLASH GUARD. Rinse with water.

Installing the RACKS



H176_0033CCA
H176_0033CC

[1] Wash with warm water:

- DEVELOPER RACK
- FIXER RACK
- WASH RACK
- DEVELOPER/FIXER CROSSOVER ASSEMBLY
- DETECTOR CROSSOVER ASSEMBLY
- FIXER/WASH CROSSOVER ASSEMBLY

[2] Manually rotate the ROLLERS on all RACKS to check that the ROLLERS rotate freely.

Caution

- Prevent contamination and spills.
- The RACKS are identified with a letter on the WASHER and a color on the WIRE TIE:

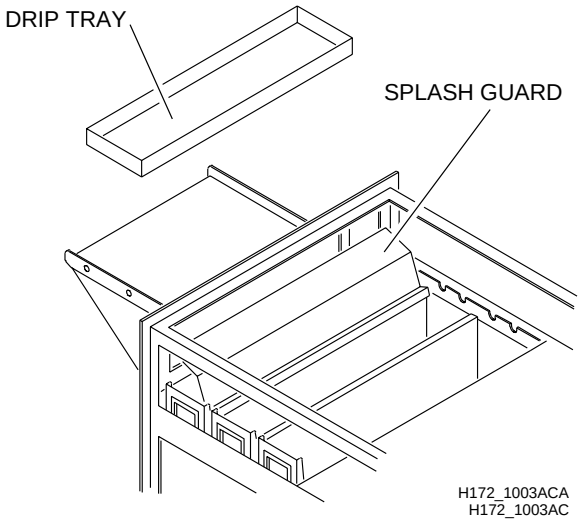
  “D” for the DEVELOPER RACK - red

  “F” for the FIXER RACK - blue

  “W” for the WASH RACK - white

[3] Slowly and carefully install the RACKS. Use:

- DRIP TRAY
- SPLASH GUARD

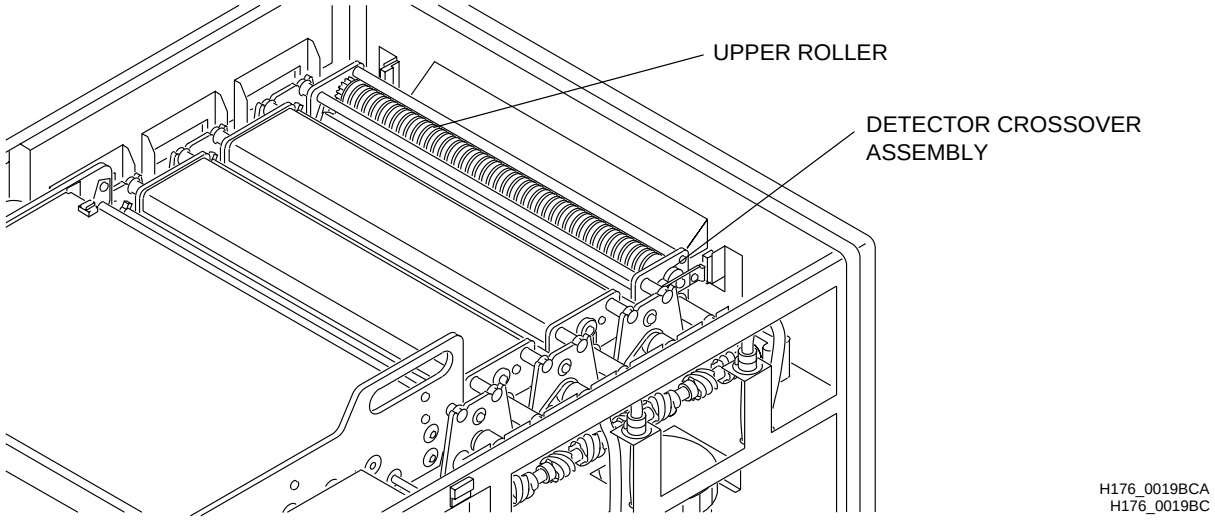


[4] Check that the RACKS are seated correctly.

[5] Install:

- DEVELOPER/FIXER CROSSOVER ASSEMBLY
- FIXER/WASH CROSSOVER ASSEMBLY
- DETECTOR CROSSOVER ASSEMBLY
- DRYER ASSEMBLY

Checking the Replenishment Rates



Warning

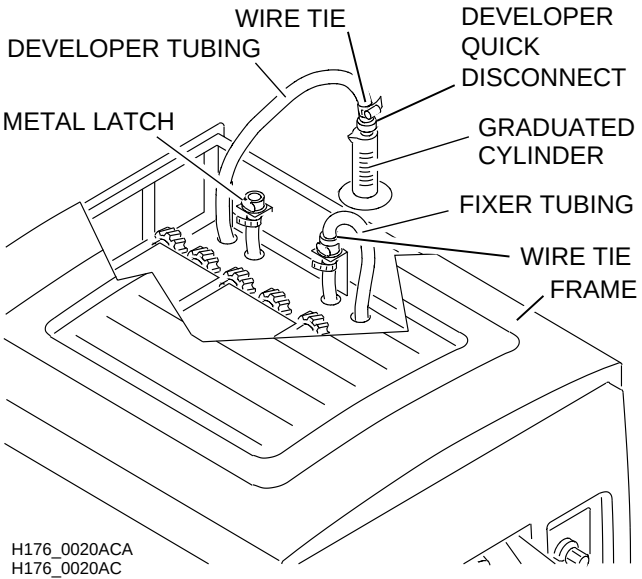
Dangerous Voltage

[1] Energize the PROCESSOR.

Warning

Use eye protection. The replenishment solutions might splash.

[2] Lift the UPPER ROLLER of the DETECTOR CROSSOVER ASSEMBLY to actuate the REPLENISHMENT PUMP.



[3] Check that the replenishment solutions move freely through the DEVELOPER and FIXER TUBINGS on the drive side.

[4] Release the UPPER ROLLER to stop the REPLENISHMENT PUMP.

Important

The DEVELOPER QUICK DISCONNECT is identified with a red WIRE TIE.

[5] Press the METAL LATCH to disconnect the DEVELOPER QUICK DISCONNECT.

[6] Pull the DEVELOPER TUBING a minimum distance.

[7] Rotate the DEVELOPER TUBING over the edge of the FRAME and into the GRADUATED CYLINDER.

[8] Lift the UPPER ROLLER of the DETECTOR CROSSOVER ASSEMBLY for the time indicated in the table on Page 24.

[9] When the REPLENISHMENT PUMP stops, check that the quantity of solution in the GRADUATED CYLINDER is correct. See the table on Page 24.

[10] If the replenishment rate is not correct, do the procedure “Adjusting the REPLENISHMENT PUMP” on Page 26.

[11] Connect the DEVELOPER QUICK DISCONNECT by pressing it into the METAL LATCH until the DEVELOPER TUBING snaps in position.

Important

The FIXER TUBING is identified with a blue WIRE TIE.

[12] Check the replenishment rate of the fixer solution by doing Step 5 - Step 11 with the FIXER TUBING.

Replenishment Rates - Dedicated MAMMOGRAPHY

Film Type and Feeding	Use Condition	Average Number of 18 x 24 cm Films per 8 Hours of PROCESSOR Operation	Replenishment Flow Rate, mL per 18 x 24 cm Film Standard Cycle Times: 19 seconds per 24 cm of Film Travel 14 seconds per 18 cm of Film Travel	
			Developer	Fixer
Kodak Min-R M FILM Single Film Feeding	High Medium Low	150 sheets or more 60 - 150 sheets 60 sheets or less*	30 30 35	30 35 40
Kodak Min-R M FILM Double Film Feeding	High Medium Low	150 sheets or more 60 - 150 sheets 60 sheets or less*	60 60 70	60 70 80
Kodak Min-R 2000 FILM Single Film Feeding	Medium - High Low	60 sheets or more 60 sheets or less*	25 Flooded	30 Flooded
Kodak Min-R 2000 FILM Double Film Feeding	Medium - High Low	60 sheets or more 60 sheets or less*	50 Flooded	60 Flooded

Replenishment Rates - GENERAL RADIOGRAPHY

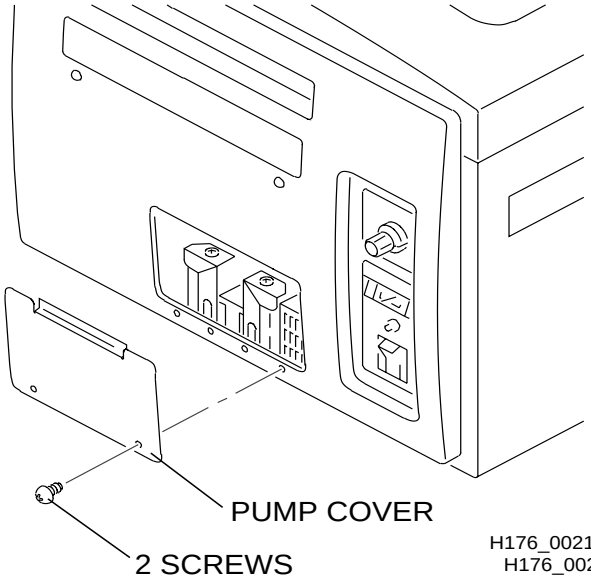
Film Size Processed	Use Condition	Average Number of Film per 8 Hours of PROCESSOR Operation	Replenishment Flow Rate, mL per 43 cm Film Travel 34 seconds for Standard Cycle 25 seconds for Rapid Cycle	
			Developer	Fixer
Only 35 x 35 cm film	High	90 sheets or more	50	70
	Medium	30 - 90 sheets	65	85
	Low	30 sheets or less*	80	100
Average size intermix film	High	115 sheets or more	50	70
	Medium	40 - 115 sheets	65	85
	Low	40 sheets or less*	80	100
Only 35 x 43 cm film	High	75 sheets or more	60	85
	Medium	25 - 75 sheets	80	100
	Low	25 sheets or less*	100	120

* If sensitometry does not remain within control limits, the “Flooded Replenishment” mode might be necessary. For more information on “Flooded Replenishment” and recommended processing instructions, see the SERVICE BULLETIN 30, Publication No. 632661.

Note

- *Kodak RP X-Omat* CHEMICALS are recommended.
- Sensitometric changes will occur as subsequent films are processed through a freshly started process. This is known as “seasoning” and is normal with any photographic process. Process control targets might have to be adjusted to compensate.

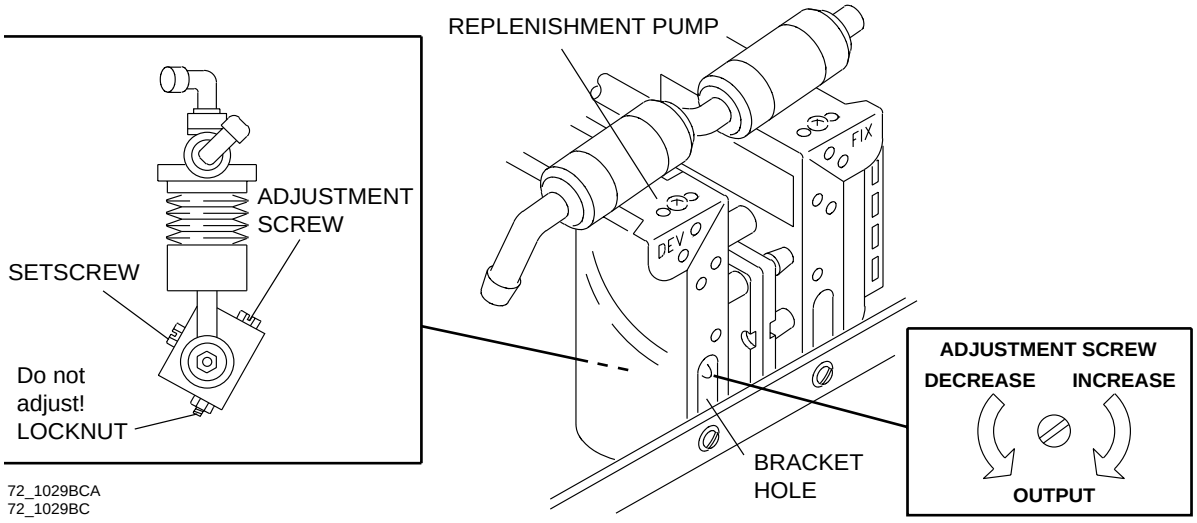
Adjusting the REPLENISHMENT PUMP



H176_0021ACA
H176_0021AC

[1] Remove:

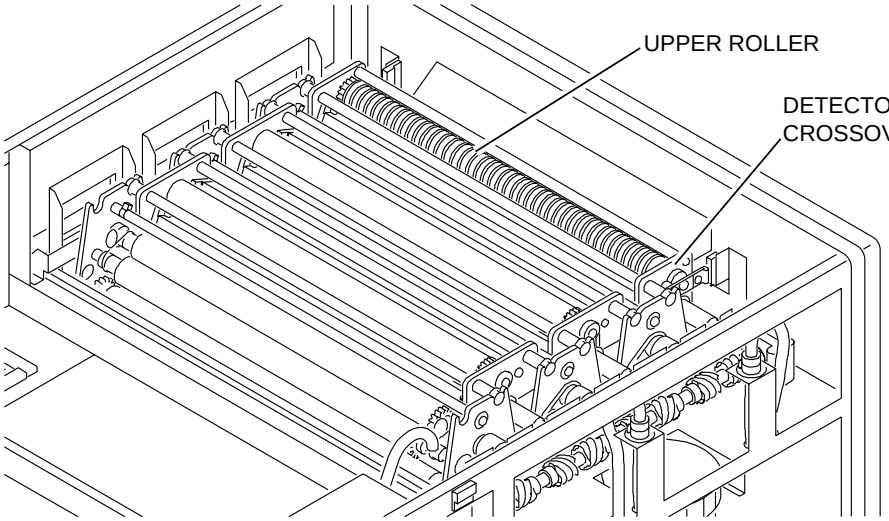
- RECEIVING BIN
- 2 SCREWS
- PUMP COVER



72_1029BCA
72_1029BC

[2] Check that the ADJUSTMENT SCREW is visible through the BRACKET HOLE.

[3] If the ADJUSTMENT SCREW is visible, advance to Step 5.



H176_0022BCA
H176_0022BC

[4] If the ADJUSTMENT SCREW is not visible, operate the REPLENISHMENT PUMP until the ADJUSTMENT SCREW is visible by lifting the UPPER ROLLER of the DETECTOR CROSSOVER ASSEMBLY.

Caution

Do not adjust the LOCKNUT.

[5] Loosen the SETSCREW.

[6] Rotate the ADJUSTMENT SCREW to change the flow rate:

- clockwise to increase
- counterclockwise to decrease

[7] Tighten the SETSCREW.

[8] Check the replenishment rates. See the procedure “Checking the Replenishment Rates”, Page 23.

[9] If the replenishment rate is not correct, do Step 2 - Step 8 again.

[10] Install:

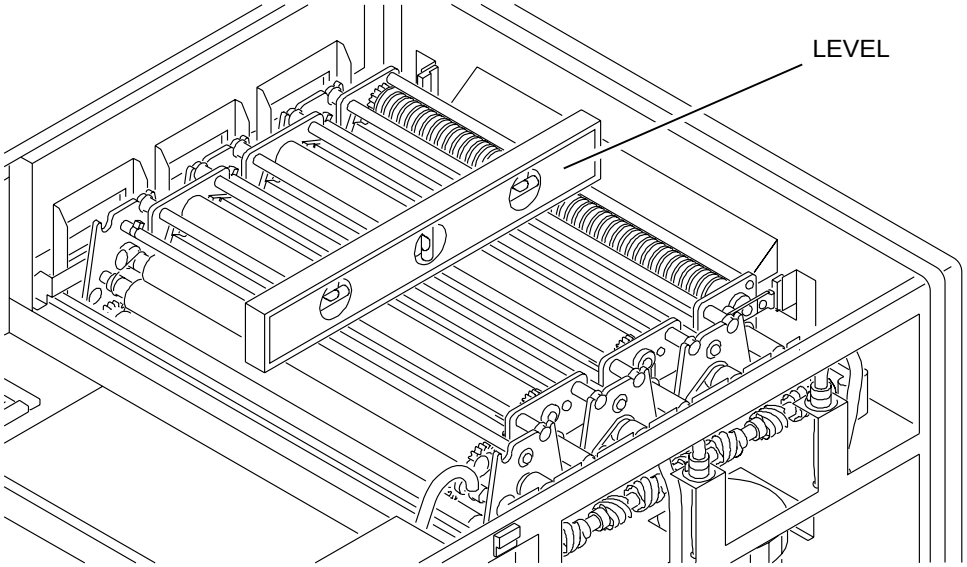
- PUMP COVER
- 2 SCREWS
- RECEIVING BIN

Warning

Dangerous Voltage

[11] De-energize the PROCESSOR.

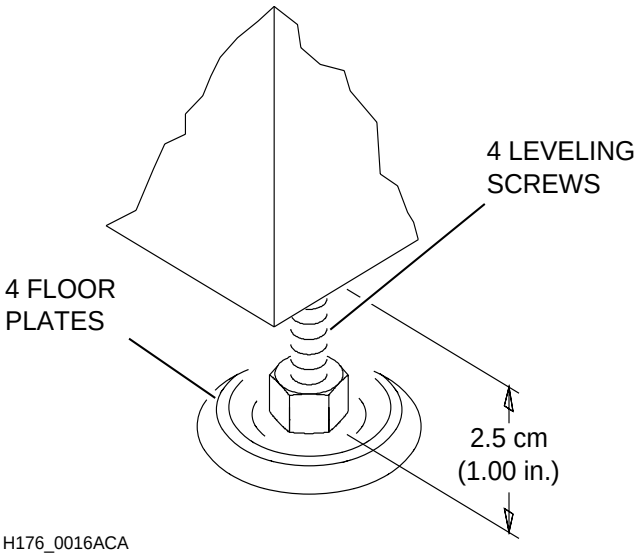
Leveling the PROCESSOR



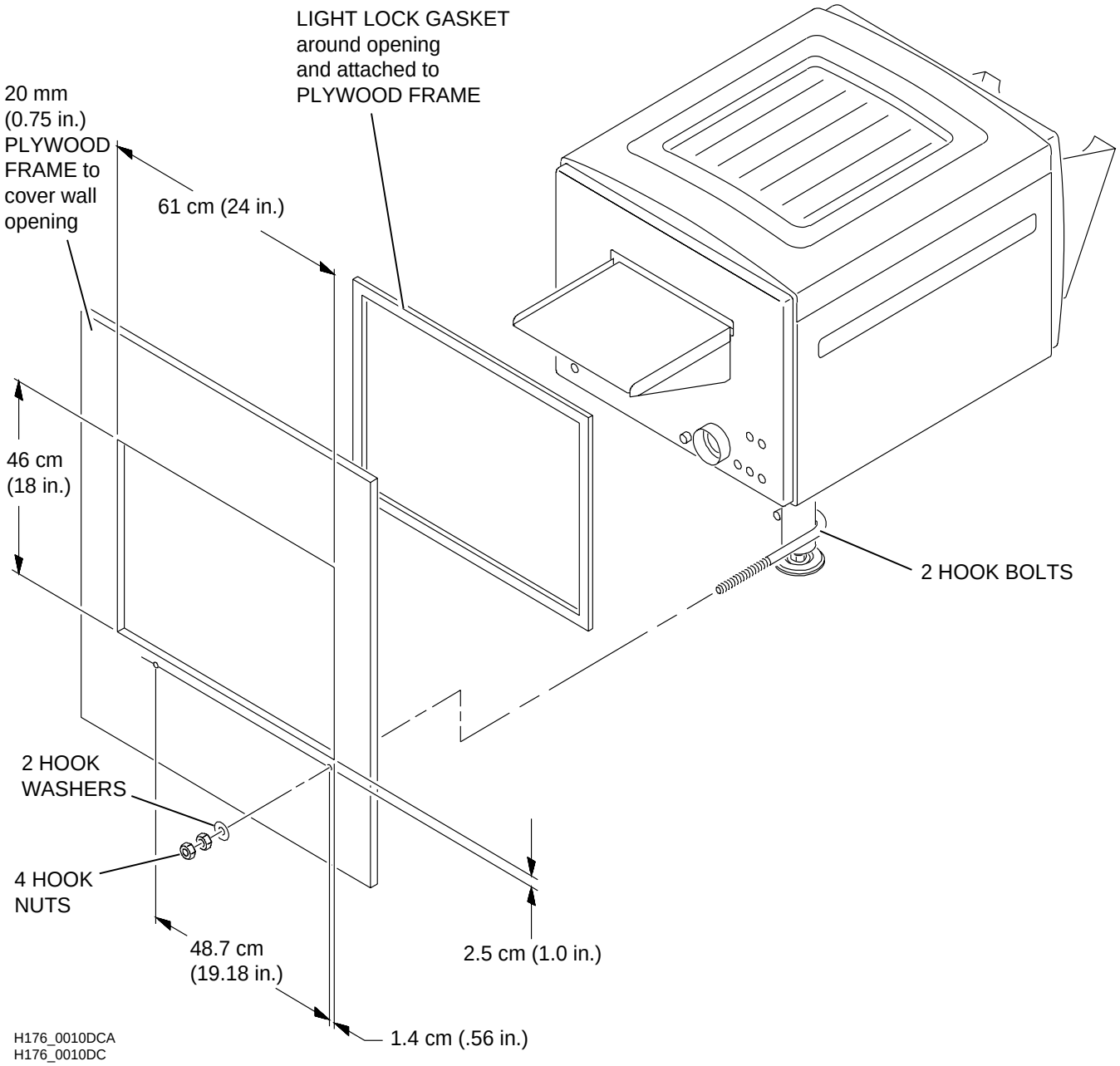
H172_1019BCA
H172_1019BC

[1] If the PROCESSOR is not installed on a MOUNTING STAND, level the PROCESSOR using the LEVELING SCREWS.

[2] If the PROCESSOR is installed on a MOUNTING STAND, level the MOUNTING STAND. Use the LEVEL TL-1434.



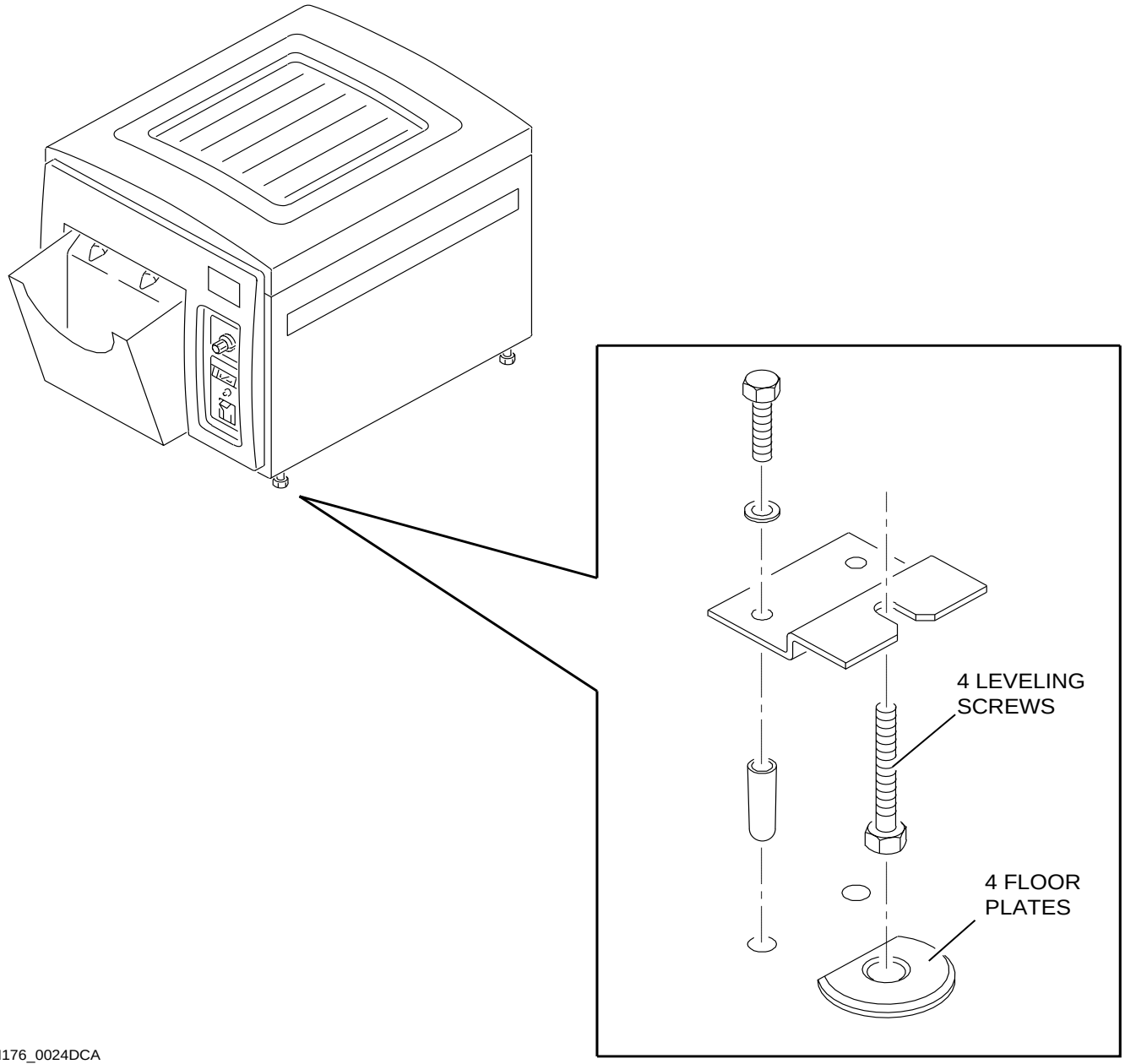
H176_0016ACA
H176_0016AC



[3] If the PROCESSOR is installed through the wall, install:

- 2 HOOK BOLTS
- 2 HOOK WASHERS
- 4 HOOK NUTS

Installing Optional SEISMIC BRACKETS



H176_0024DCA
H176_0024DC

Important

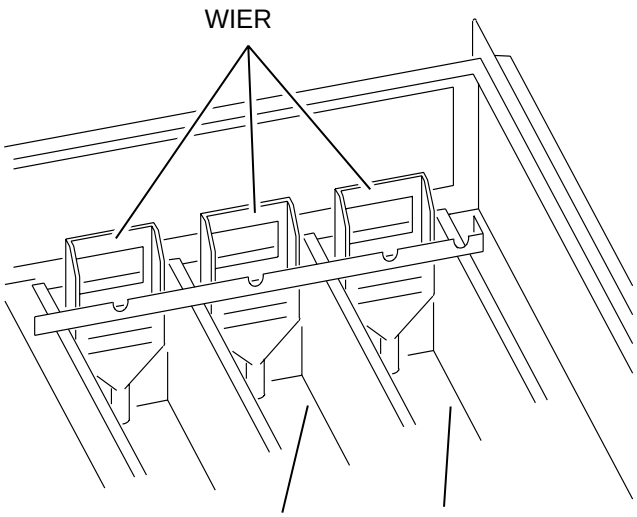
SEISMIC BRACKETS are optional.

[1] Check the local building codes to see if the SEISMIC BRACKETS are necessary.

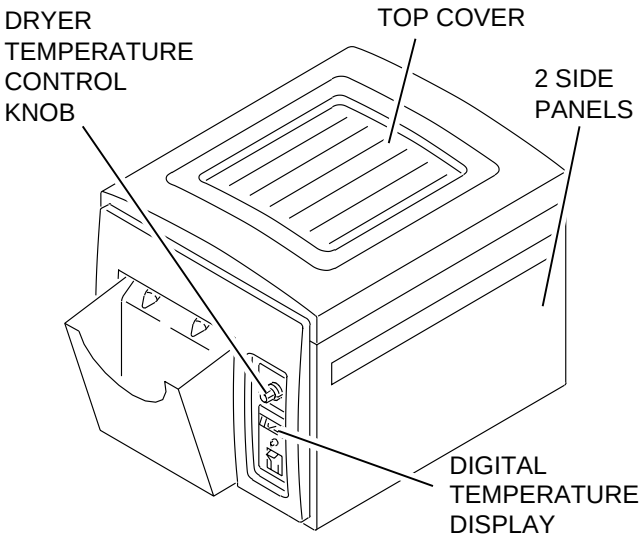
[2] If necessary, install the SEISMIC BRACKETS 261413 on the PROCESSOR or to the MOUNTING STAND. Use:

- 4 LEVELING SCREWS
- 4 FLOOR PLATES

Checkout of the PROCESSOR



H172_1004ACD
H172_1004AC



H172_0500ACD
H172_0500AC

[1] Start the “WASH” water supply.

Warning
Dangerous Voltage

[2] Energize the PROCESSOR.

[3] Check:

- DEVELOPER and FIXER TANKS for correct agitation
- water flow in the PROCESSOR
- no leakage of water or solutions
- solution flow in the WEIRS

[4] Install:

- 2 SIDE PANELS
- TOP COVER

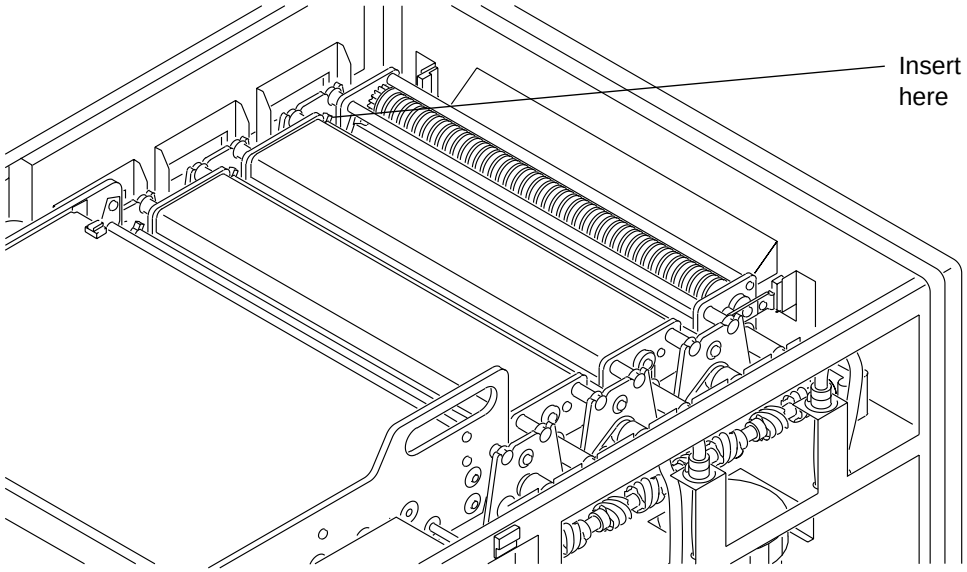
[5] Adjust the DRYER TEMPERATURE CONTROL KNOB to the lowest possible temperature that will allow the film to dry.

[6] Check for warm air at the EXHAUST.

[7] Wait until the PROCESSOR reaches the correct temperature displayed on the DIGITAL TEMPERATURE DISPLAY.

Cycle	Temperature
Standard	33.3 ± 0.3°C (92.0 ± 0.5°F)
Rapid	34.4 ± 0.3°C (94.0 ± 0.5°F)

[8] Remove the TOP COVER.



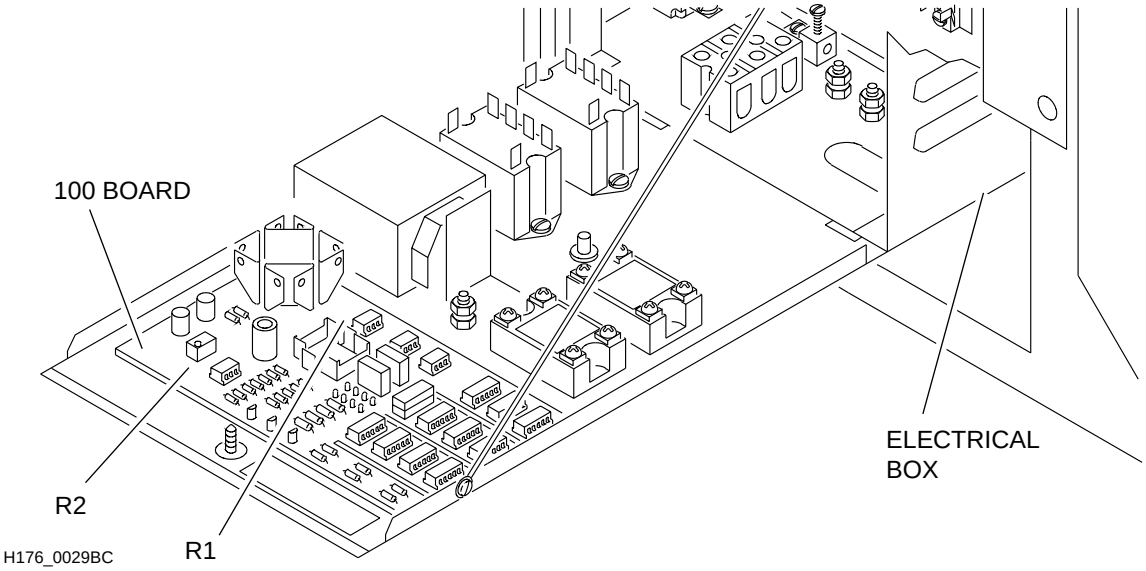
H172_1006BCB
H172_1006BC

[9] Insert a reliable THERMOMETER into the solution on the nondrive side of the PROCESSOR.

[10] Check that the temperature of the developer is correct for the operating cycle of the PROCESSOR.

Cycle	Temperature
Standard	33.3 ± 0.3°C (92.0 ± 0.5°F)
Rapid	34.4 ± 0.3°C (94.0 ± 0.5°F)

[11] If the developer temperature is correct, advance to Step 15.



H176_0029BC

H176_0029BCA

ESD
Possible damage from electrostatic discharge.

[12] If the developer temperature is not correct:

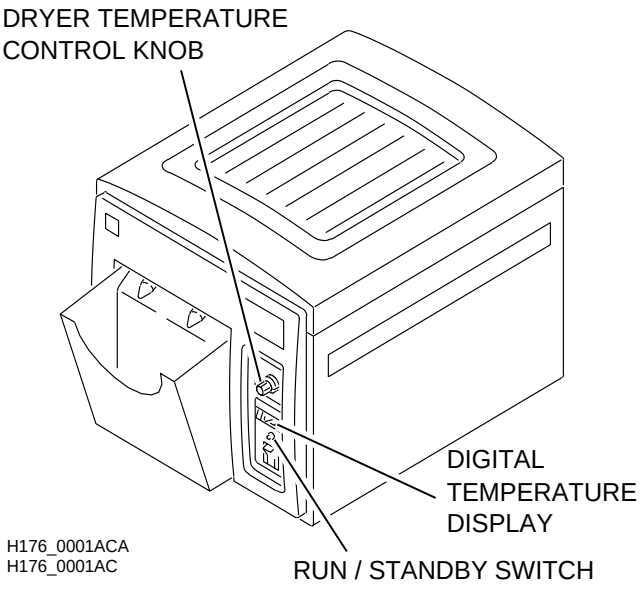
(a) Access the ELECTRICAL BOX.

(b) Rotate R2 on the 100 BOARD using the POTENTIOMETER ADJUSTING TOOL TL-1481:

- clockwise to increase the temperature
- counterclockwise to decrease the temperature

[13] With all COVERS to the PROCESSOR installed, allow the developer solution to reach a stable temperature.

[14] Do Step 10 again.



[15] Check that the timeout of the “Run” mode to “Standby” mode is 3 minutes:

(a) Wait until the PROCESSOR reaches the correct temperature displayed on the DIGITAL TEMPERATURE DISPLAY.

Cycle	Temperature
Standard	33.3 ± 0.3°C (92.0 ± 0.5°F)
Rapid	34.4 ± 0.3°C (94.0 ± 0.5°F)

(b) Press 1 of the RUN/STANDBY SWITCHES to actuate the cycle. The PROCESSOR should operate for 3 minutes.

[16] If the timeout is not 3 minutes:

(a) Access the ELECTRICAL BOX.

(b) Rotate R1 on the 100 BOARD:

- clockwise to increase the time
- counterclockwise to decrease the time

[17] Close the DOOR on the ELECTRICAL BOX.

[18] If necessary, check that all COVERS and PANELS are installed.

Publication History

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